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Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	Unknown
		Filing Date	Herewith
		First Named Inventor	Mark A. Lemkin
		Group Art Unit	Unknown
		Examiner Name	Unknown
Sheet	1	of	5
		Attorney Docket Number	AIMI-01833US0

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>a</sup> (if known)			
	4,861,420			Knutt et al.	08-29-1989	156 1633
	4,882,933			Petersen et al.	11-28-1989	73 1517R
	4,904,978			Barth et al.	02-27-1990	338 47
Tan	4,993,143			Sidner et al.	02-19-1991	291 6211
	5,080,526			Barth et al.	10-29-1991	73 1802,59
	5,062,302			Petersen et al.	11-06-1991	73 1754
	5,084,408			Baba et al.	01-28-1992	437 621
	5,198,390			MacDonald et al.	03-30-1993	437 203
	5,231,301			Peterson et al.	07-27-1993	257 419
	5,313,836			Fujii et al.	05-24-1994	73 1517R
	5,326,726			Tsang et al.	07-05-1994	437 227
	5,343,064			Spancler et al.	08-30-1994	257 350
	5,355,712			Petersen et al.	10-18-1994	73 4R
	5,445,988			Schwalke	08-29-1995	437 67
	5,447,067			Biebl et al.	09-05-1995	257 350
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	5,495,761			Diem et al.	03-05-1996	73 514,32
bot	5,503,285			Warren	04-02-1996	216 2
	5,504,026			Kung	04-02-1996	437 51
	5,506,175			Zhang et al.	04-09-1996	73 753

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature	( <i>[Signature]</i> )	Date Considered	10/16/03
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	Unknown
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Sheet	2	of	5	First Named Inventor	Mark A. Lemkin
				Group Art Unit	Unknown
				Examiner Name	Unknown
				Attorney Docket Number	AIMI-01833US0

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	
<i>DAT</i>	GARY K. FEDDER and TAMAL MUKHERJEE, "Physical Design for Surface-Micromachined MEM Proceedings of the 5th ACM/SIGDA Physical Design Workshop, 4/15-17/1996, pp. 53-60		
<i>WAT</i>	BERNHARD E. BOSEN, "Electronics for Micromachined Inertial Sensor", 1997 Int'l Conference on Solid State Sensors and Actuators, Chicago, IL, pp. 1169-1172, June 16-19, 1997		
<i>WAT</i>	HUIKAI XIE and GARY K. FEDDER, "A CMOX Z-Axis Capacitive Accelerometer With Comb-Finge Sensing", Dept. of Electrical and Computer Engineering and The Robotics Institute	8/2001	
<i>WAT</i>	CHANG LIU and Y. BAR-COHEN, "Scaling Laws of Microactuators and Potential Applications of Electroactive Polymers in MEMS", Proceedings of SPIE's 6th Annual Int'l Symposium on Smart Structures and Materials, 1-5 March, 1999, Newport Beach, CA, Paper No. 3669-33		
<i>WAT</i>	CRIST LU, MARK LEMKIN and BERNHARD E. BOSEN, "A Monolithic Surface Micromachined Accelerometer with Digital Output", IEEE Journal of Solid-State Circuits, Vol. 30, No. 12, December 1995		
<i>WAT</i>	ROBERT A. CONANT, JOCELYN T. NEE, KAM Y. LAU, RICHARD S. MULLER, "A Flat High-Frequency Scanning Micromirror", 2000 Workshop for Solid State Sensors and Actuators (HHS2000), Hilton Head Island, S.C., June 4-8, 2000, pp. 6-9, Digest of Technical Papers		
<i>WAT</i>	J. MOHAN, N. I. MALLUF, K.E. PETERSEN, G.T.A. KOVACS, "An Integrated Accelerometer as a Demonstration of a New Technology Using Silicon Fusion Bonding and Deep Reactive Ion Etching", Solid-State Sensor and Actuator Workshop, Hilton Head, SC, pp. 21-22, June 3-6, 1996		
<i>WAT</i>	LALITHA PARAMESWARAN, CHARLES H. HSU, MARTIN A. SCHMIDT, "IC Process Compatibility of Sealed Cavity Sensors", 1997 Int'l Conference on Solid-State Sensors and Actuators, Chicago, IL, pp. 625-628, June 16-19, 1997		
<i>WAT</i>	UPPILI SRIDHAR, LIU LIAN JUN, PANG DOW FOO, "Isolation Process for Surface Micromachined Sensors and Actuators", iMEMS '97 Int'l MEMS Workshop, National University of Singapore, Singapore, Dec., 1997		
<i>WAT</i>	E.K. CHAN and R.W. DUTTON, "Effects of Capacitors, Resistors and Residual Charge on the Static and Dynamic Performance of Electrostatically-Actuated Devices, CISX 305, Center for Integrated Systems, Stanford University, Stanford, CA	8/2001	
<i>WAT</i>	JOHN H. COMTOIS, M. ADRIAN MICHALICEK, CAROLE CRAIG BARRON, "Fabricating Micro-Instruments in Surface-Micromachined Polycrystalline Silicon", Proceedings of the 43rd Int'l Instrumentation Symposium Instrument Society of America, 1997, pp. 169-179		

Examiner Signature	<i>DAT</i>	Date Considered	10/16/03
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>Application Number</b>	Unknown
				<b>Filing Date</b>	Herewith
				<b>First Named Inventor</b>	Mark A. Lemin
				<b>Group Art Unit</b>	Unknown
				<b>Examiner Name</b>	Unknown
Sheet	3	of	5	Attorney Docket Number	AIMI-01833US0

## **U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Column, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
<i>Han, J. Kim</i>	5,569,852			Marek et al.	10-29-1996	73 77 7
	5,511,428			Goldberg et al.	04-30-1996	73 504 12
	5,537,872			Frere et al.	07-23-1996	73 514 32
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	5,592,015			Iida et al.	01-07-1997	257 524
	5,616,523			Benz et al.	04-01-1997	438 50
	5,620,931			Tsang et al.	04-15-1997	438 50
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	5,631,422			Sulzberger et al.	05-20-1997	73 514 32
	5,706,565			Sparks et al.	01-13-1998	29 25 47
	5,719,069			Sparks	02-17-1998	437 59
	5,719,073			Shaw et al.	02-17-1998	437 272
	5,723,353			Muenzel et al.	03-03-1998	437 51
	5,747,353			Bashir et al.	05-05-1998	437 21
	5,747,867			Oppermann	05-05-1998	257 507
	5,756,901			Kurle et al.	05-26-1998	73 777
	5,798,283			Montague et al.	08-25-1998	438 24

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature	Darl T.E. Campbell	Date Considered	10/16/03
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	Unknown
				Filing Date	Herewith
				First Named Inventor	Mark A. Lemlin
				Group Art Unit	Unknown
				Examiner Name	Unknown
(use as many sheets as necessary)				Attorney Docket Number	AIMI-01833US0
Sheet	4	of	5		

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>WT</i>		MARK SHEPLAK, KENNETH S. BREUER, MARTIN A. SCHMIDT, "A Wafer-Bonded, Silicon-Nitride Membrane Microphone with Dielectrically-Isolated, Single-Crystal Silicon Piezoresistors", Solid-State Sensor and Actuator Workshop, Hilton Head, SC, pp. 23-26, June 8-11, 1998	
<i>WT</i>		TIMOTHY JOHN BROSNIHAN, "An SOI Based, Fully Integrated Fabrication Process for High-Aspect-Ratio Microelectromechanical Systems", Doctoral Dissertation, University of California, 1998	

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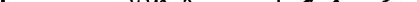
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				Attorney Docket Number	AIMI-01833US0
Sheet	5	of	5		
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## **U.S. PATENT DOCUMENTS**

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		Number	Kind Code <sup>2</sup> (if known)			
UV	5,847,280			Sherman et al.	12-08-1998	73/514,32
UV	5,847,454			Shaw et al.	12-08-1998	257/734
LW	5,850,042			Warren	12-15-1998	73/514,36
KK	5,882,532			Field et al.	03-16-1999	216/2
LW	5,930,595			Sridhar et al.	07-27-1999	438/52
PS	5,958,208			Muenzel et al.	09-28-1999	73/514,32
LM	6,013,933			Foerstner et al.	01-11-2000	257/415
PS	5,025,348			Tang et al.	06-18-1991	361/283
LA	6,133,670			Rodgers et al.	10-17-2000	310/309

## **FOREIGN PATENT DOCUMENTS**

<b>Examiner Signature</b>		<b>Date Considered</b>	10/16/03
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Sheet 1

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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